NEC PowerMate eco
Getting Started Guide

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System Setup

Use the following procedure to quickly set up the PowerMate eco™ microdesktop system.

Note See the figures in the next section, "System Features," to locate connectors and controls.

1. Check that you have the following system components:
   - PowerMate eco microdesktop computer
   - USB keyboard
   - USB mouse
   - AC adapter and power cord.
2. Connect the keyboard and mouse:
   - Connect the USB mouse to one of the two USB ports on the bottom of your USB keyboard.
   - Connect the keyboard to a USB port on the left side or back of the PowerMate eco system.
3. Connect the power cables:
   - Connect the AC adapter to the DC power port on the back of the PowerMate eco system.
   - Connect the power cable to the AC adapter and to a surge protector (recommended) or a properly grounded wall outlet.

⚠ **CAUTION** Do not cover or place objects on the AC adapter. Keeping the adapter clear of objects lets the adapter cool properly during use.

Only use the AC adapter that comes with your NEC PowerMate eco system. Although other adapters look similar, using them can damage your system.

4. Power on and start:
   - Press the power button on the front of the PowerMate eco system.
   - Adjust the LCD brightness controls.
5. Follow the on-screen instructions to complete the Microsoft® Windows® setup.

⚠ **CAUTION** During the Microsoft Windows setup procedure, you must choose your operating system, Microsoft Windows XP Professional, or Microsoft Windows 2000 Professional. Once you choose the operating system, you cannot change it. The NEC PowerMate eco Product Recovery CD that ships with your system only restores the operating system you choose during the initial Microsoft Windows setup.

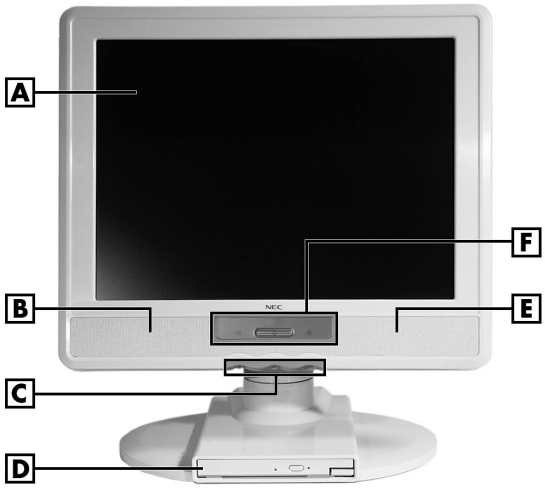
Note The NEC PowerMate eco Application and Driver CD provides PowerMate eco drivers and utilities for users who load their own operating system.

WARNING Prolonged or improper use of a computer workstation may pose a risk of serious injury. To reduce your risk of injury, set up and use your computer in the manner described in the section “How to Set Up a Healthy Work Environment” in this document.

System Features

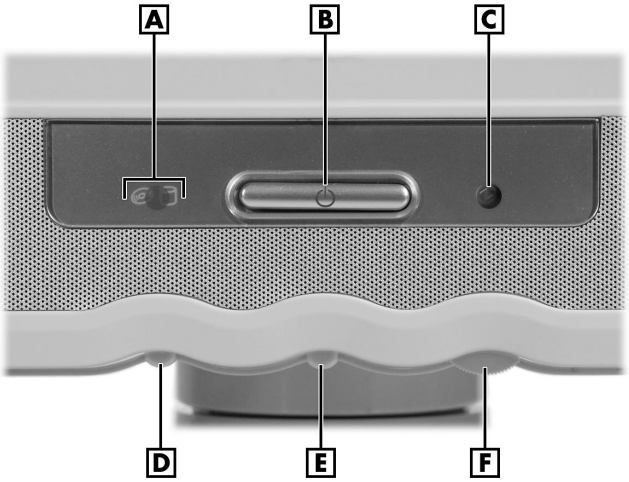
See the following figures to identify PowerMate eco system features.

PowerMate eco system – front features



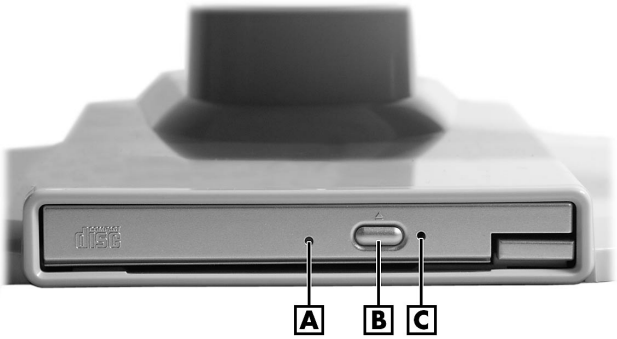
A – LCD Panel
B – Left Speaker
C – LCD Display/Audio Controls
D – Optical Drive
E – Right Speaker
F – Control Panel

System controls and LEDs



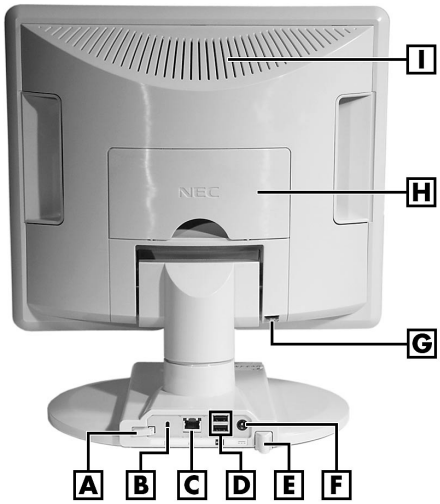
A – Optical/Hard Drive LED
B – Power Button
C – Power LED
D – Decrease LCD Brightness Button
E – Increase LCD Brightness Button
F – Volume Control

Typical optical drive features



A – Drive Status LED
B – Disc Eject Button
C – Emergency Eject Hole

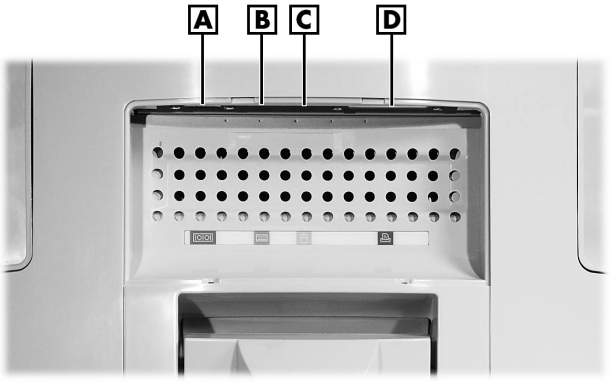
PowerMate eco system - back features



A – Optical Drive Release Button
B – Kensington® Lock Slot
C – LAN Port
D – USB Ports
E – USB Cable Lock
F – DC Power Port
G – Rear Cover Lock
H – I/O Connector Cover
I – Vents

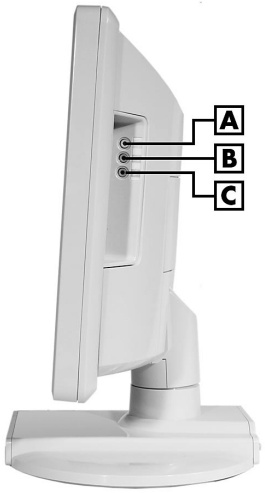
⚠ CAUTION Do not block vents while the NEC PowerMate eco system is in use.

I/O connectors



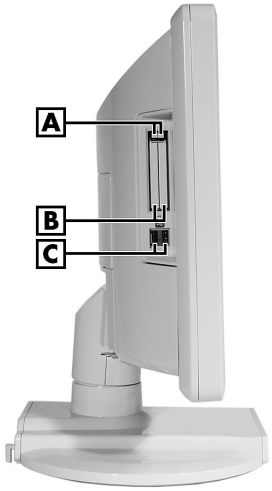
A – Serial Port
B – PS/2® Keyboard Port
C – PS/2 Mouse Port
D – Printer Port

Right side features



A – Line Out Jack
B – Line In Jack
C – Microphone Jack

Left side features



A – PC Card Eject Buttons (2)
B – PC Card Slots (2)
C – USB Ports (2)

Release Notes

Please see the following information for issues regarding system operation.

Playing DVD Movies in Windows 2000

If you are using a combination DVD-ROM and CD-RW drive on a system with Windows 2000, you might need to adjust the volume when you play a DVD movie.

To adjust the sound, use the software DVD player (installed from the NEC PowerMate eco SoftDVD Software CD) as follows:

1. On the CyberLink® PowerDVD™ Configuration menu, choose the tool menu (hammer and nail icon).
2. Choose the Audio tab.
3. Click **Advanced**.
4. Select the Miscellaneous tab.
5. In the Dynamic Range Compression section, select "Noisy Environment" to increase the volume. (The default setting is "Normal Environment.")

Installing the USB Driver in Windows XP

The system comes with a USB driver already installed. If you load your own operating system software or need to reload the USB driver, install it from the NEC PowerMate eco Application and Driver CD.

If you are installing the USB driver on a PowerMate eco system running Windows XP, you might need to reboot the system to complete the installation.

The installation process requires a restart of the system. If the installation process disables your USB keyboard and USB mouse, reboot the system by pressing and holding the power button for about four seconds. Press the power button to restart the system.

Support Services

See the following table for available support services from NEC Solutions (America), Inc.

Support services

Service	Contact Information
NEC Solutions (America), Inc. Web site	www.necsolutions-am.com
Support services Web site	support.neccomp.com
Phone to support services	1-800-632-4525
E-mail to support services	tech-support@nec-computers.com

Memory Upgrade

System memory in the NEC PowerMate eco is upgradeable to 640 MB of synchronous dynamic random access memory (SDRAM). The PowerMate eco has one 144-pin memory slot for a PC-133 Small Outline Dual Inline Memory Module (SO-DIMM). The slot supports a 128-MB, 256-MB, or 512-MB (when available) SO-DIMM. The memory slot is located behind the back cover at the rear of the LCD unit.

See the following procedures to install, and if necessary, remove a memory module.

Installing a Memory Module

Follow these steps to upgrade the system memory.

1. Save your work and exit Windows. Power off the system, disconnect the AC power adapter, and disconnect any peripheral devices.

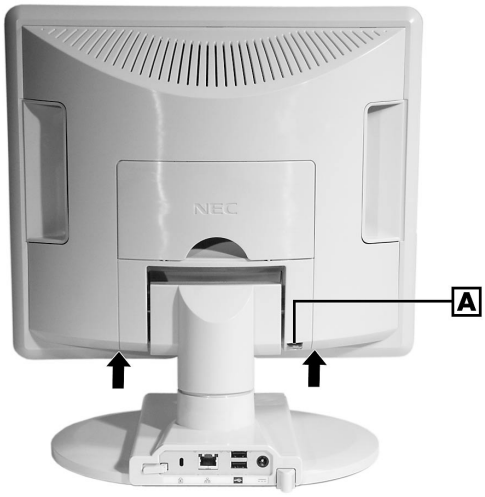
⚠ WARNING To prevent electric shock, turn off system power and unplug the system AC power adapter before removing the back cover. Power is removed only when the AC power adapter is unplugged from its power source.

2. Carefully position the system on a clean, flat, soft surface, with the LCD panel facing down.

⚠ CAUTION To prevent damage to your LCD panel screen, be sure your work surface is clean, flat, smooth and free of any objects before positioning the system face down.

3. Remove the back cover as follows.
   - If installed, remove the cover lock.
   - Release the back cover by pressing in on the bottom edges of the cover (see the following figure).
   - Carefully lift and remove the cover.

Releasing the rear cover



A – Cover Lock Location

WARNING To prevent personal injury, follow these precautions before you proceed:

- To avoid a burn, wait *at least* 30 minutes after powering off the system before you touch the system board shield and memory slot cover. During system operation, the system board shield and memory slot cover become hot.
- To prevent injury by electric shock, make sure the AC power adapter is unplugged from its power source. Power is removed only when the AC power adapter is unplugged from its power source.

4. Remove the screw securing the memory slot cover and remove the cover.

Locating the memory slot cover and screw

A – System Board Shield
B – Screw
C – Memory Slot Cover

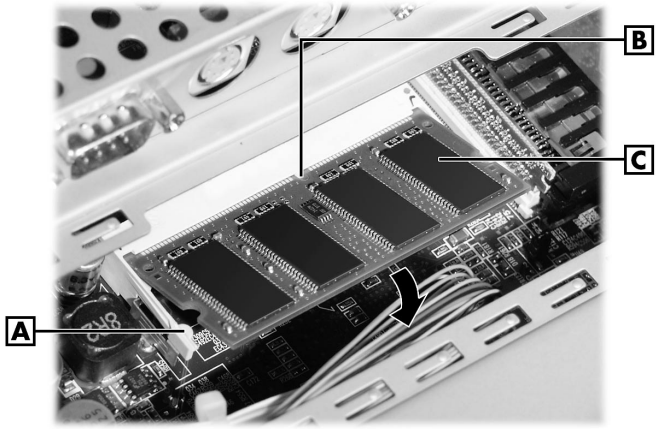
5. Install the memory module as follows.

Note To remove an already installed memory module, see "Removing a Memory Module" following this procedure.

⚠ CAUTION Before handling any internal components, discharge static electricity from yourself by touching a nearby unpainted metal surface.

- Locate the alignment notch on the memory module (see the following figure).
- Align the notch with the key in the slot connector.
- Holding the memory module at a 45-degree angle, insert the module connector into the socket. Firmly push the module into the socket.
- Press down on the edge of the memory module until the locking tabs on the sides of the socket snap into place, securing the module.

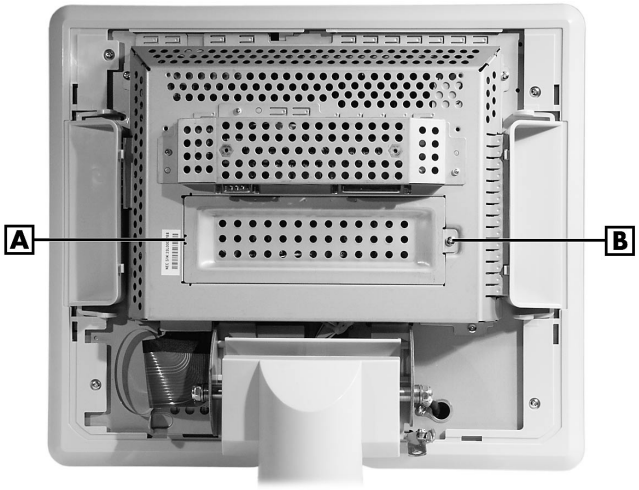
Installing the memory module



A – Locking Tab
B – Module Alignment Notch
C – Memory Module

6. Inserting the tabbed end first, replace the memory slot cover. Secure it with the retaining screw.

Replacing the memory slot cover

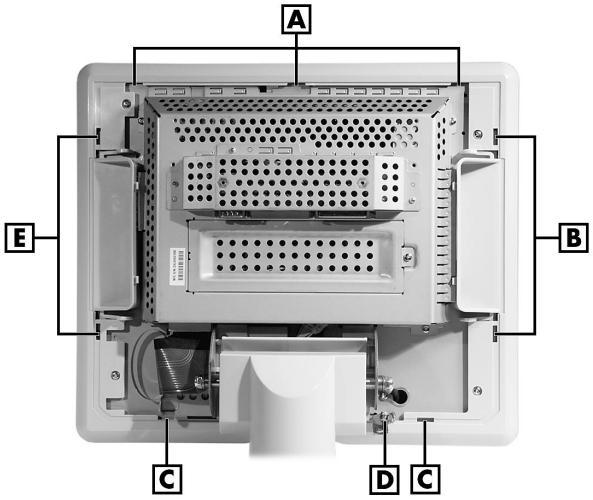


A – Tabbed End of Memory Slot Cover **B** – Screw

7. Replace the rear cover as follows.

- Press the cover lock in for the cover replacement.
- Insert the top cover tabs into the top cover slots on the LCD unit (see the following figure).
- Press the side and bottom cover tabs into the side and bottom slots on the LCD unit.

Locating the cover slots and cover lock



A – Top Cover Slots
B – Right Side Cover Slots
C – Bottom Cover Slots
D – Cover Lock
E – Left Side Cover Slots

- Secure the cover by pressing in on all of the side and bottom tabbed areas as shown in the following figure until they click in place.

Securing the rear cover

8. Position the system on its base. Reconnect peripheral devices and the AC adapter.

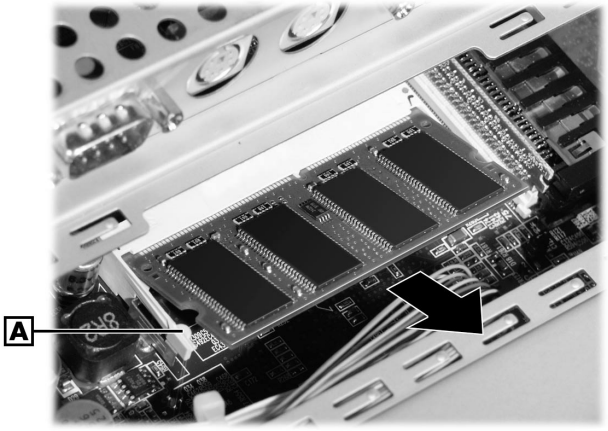
Removing a Memory Module

If you are replacing a memory module, remove the installed memory module as follows.

⚠ CAUTION Before handling any internal components, discharge static electricity from yourself by touching a nearby unpainted metal surface.

1. Press the locking tabs away from the sides of the module until the module pops up at an angle.
2. Pull the memory module out of the slot along the angle and store it in a static-free bag.

Removing the memory module



A – Locking tab (1 of 2)

How to Set Up a Healthy Work Environment

WARNING Prolonged or improper use of a computer workstation may pose a risk of serious injury. To reduce your risk of injury, set up and use your computer in the manner described in this section.

Contact a doctor if you experience pain, tenderness, swelling, burning, cramping, stiffness, throbbing, weakness, soreness, tingling and/or numbness in the hands, wrists, arms, shoulders, neck, back, and/or legs.

Making Your Computer Work for You

Computers are everywhere. More and more people sit at computers for longer periods of time. The following information explains how to set up your computer to fit your physical needs. This information is based on ergonomics — the science of making the workplace fit the needs of the worker.

Some nerve, tendon, and muscle disorders (musculoskeletal disorders) may be associated with repetitive activities, improper work environments, and incorrect work habits. Examples of musculoskeletal disorders that may be associated with certain forms of repetitive activities include: carpal tunnel syndrome, tendinitis, tenosynovitis, de Quervain's tenosynovitis, and trigger finger, as well as other nerve, tendon, and muscle disorders.

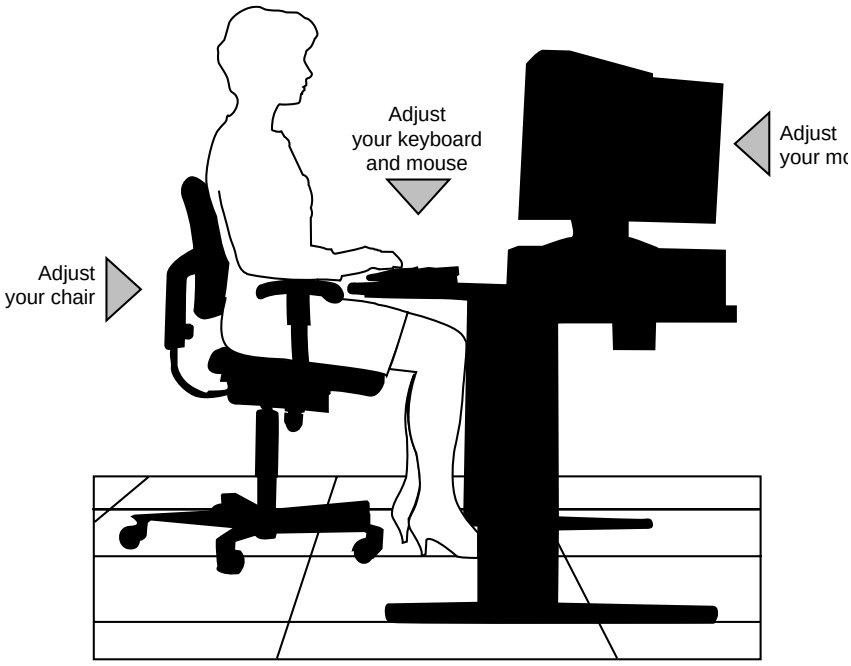
Although some studies have shown an association between increasing hours of keyboard use and the development of some musculoskeletal disorders, it is still unclear whether working at a computer causes such disorders. Some doctors believe that using the keyboard and mouse may aggravate existing musculoskeletal disorders.

Some people are more susceptible to developing these disorders due to preexisting conditions or psychosocial factors (see "Preexisting Conditions and Psychosocial Factors" later in the document).

To reduce your risk of developing these disorders, follow the instructions in this document. If you experience discomfort while working at your computer or afterwards, even at night, contact a doctor as soon as possible. Signs of discomfort might include pain, tenderness, swelling, burning, cramping, stiffness, throbbing, weakness, soreness, tingling and/or numbness in the hands, wrists, arms, shoulders, neck, back, and/or legs.

Arrange Your Equipment

Arrange your equipment so that you can work in a natural and relaxed position. Place items that you use frequently within easy reach. Adjust your workstation setup to the proper height (as described in this) by lowering the table or stand that holds your computer equipment or raising the seat height of your chair. To create more desk space, you can put your computer base on the floor.



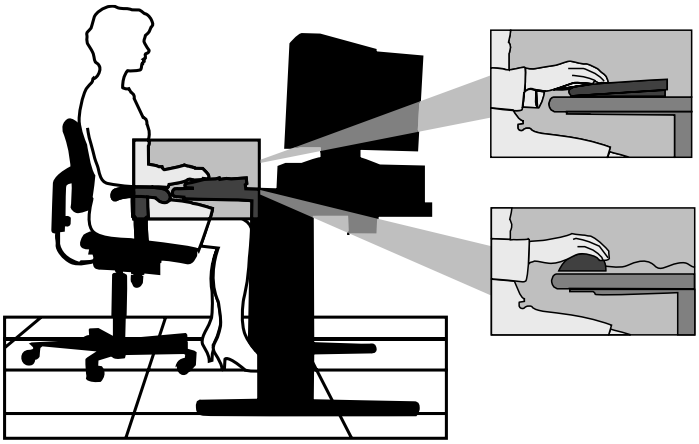
Adjust Your Chair

Your chair should be adjustable and stable. Vary your posture throughout the day.

Check the following:

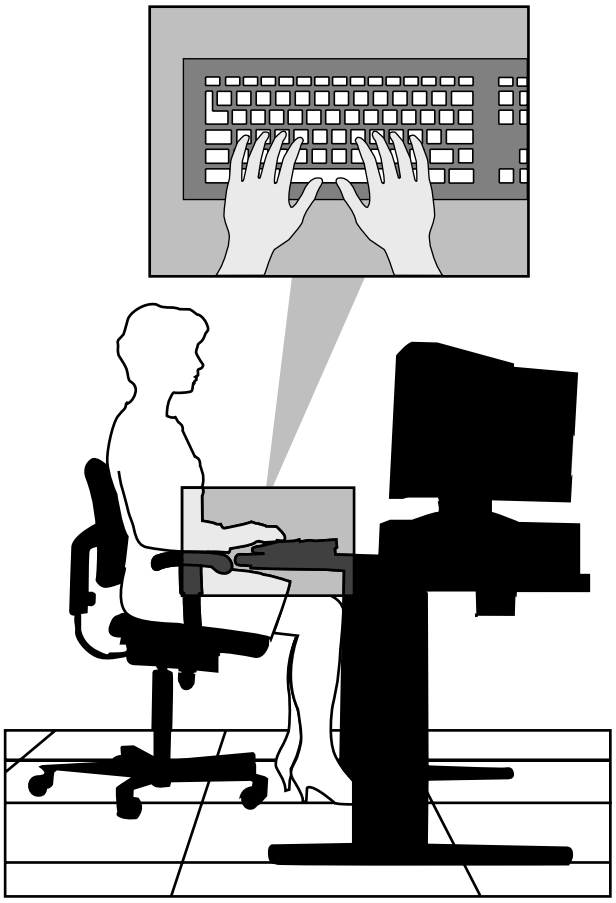
- Keep your body in a relaxed yet upright position. The backrest of your chair should support the inward curve of your back.
- Use the entire seat and backrest to support your body. Tilt the backrest slightly backwards. The angle formed by your thighs and back should be 90° or more.
- Your seat depth should allow your lower back to comfortably contact the backrest. Make sure that the backs of your lower legs do not press against the front of the chair.
- Extend your lower legs slightly so that the angle between your thighs and lower legs is 90° or more.
- Place your feet flat on the floor. Only use a footrest when attempts to adjust your chair and workstation fail to keep your feet flat.
- Be sure that you have adequate clearance between the top of your thighs and the underside of your workstation.
- Use armrests or forearm supports to support your forearms. If adjustable, the armrests or forearm supports should initially be lowered while all the other adjustments discussed in this document are made. Once all these adjustments are completed, raise the armrests or adjust the forearm supports until they touch the forearms and allow the shoulder muscles to relax.

Adjust Your Input Devices



Follow these points in positioning your keyboard and mouse.

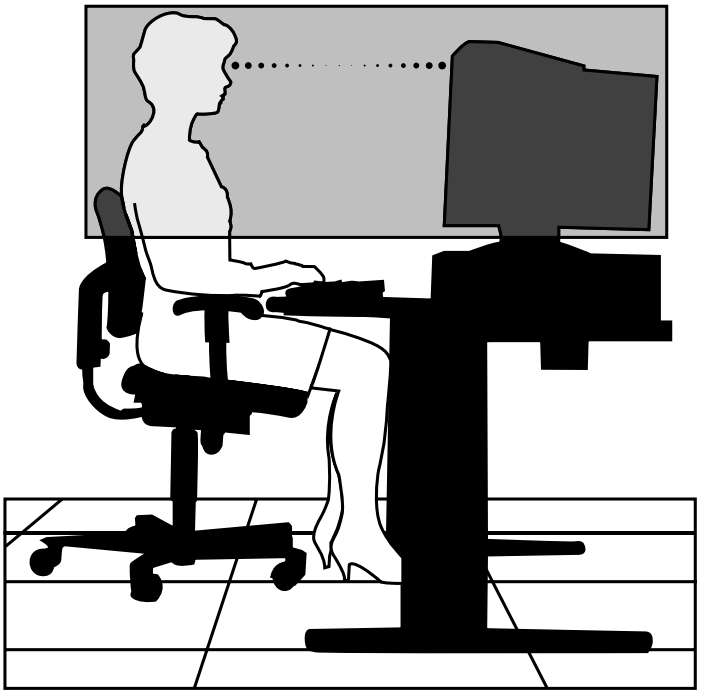
- Position your keyboard directly in front of you. Avoid reaching when using your keyboard or mouse.
- If you use a mouse, position it at the same height as the keyboard and next to the keyboard. Keep your wrists straight and use your entire arm when moving a mouse. Do not grasp the mouse tightly. Grasp the mouse lightly and loosely.
- Adjust the keyboard height so that your elbows are near your body and your forearms are parallel to the floor, with your forearms resting on either armrests or forearm supports, in the manner described previously. If you do not have armrests or forearm supports, your upper arms should hang comfortably at your sides.
- Adjust your keyboard slope so that your wrists are straight while you are typing.



- Type with your hands and wrists floating above the keyboard. Use a wrist pad only to rest your wrists between typing. Avoid resting your wrists on sharp edges.
- Type with your wrists straight. Instead of twisting your wrists sideways to press hard-to-reach keys, move your whole arm. Keep from bending your wrists, hands, or fingers sideways.
- Press the keys gently; do not bang them. Keep your shoulders, arms, hands, and fingers relaxed.

Adjust Your Monitor

Correct placement and adjustment of the monitor can reduce eye, shoulder, and neck fatigue. Check the following when you position the monitor.

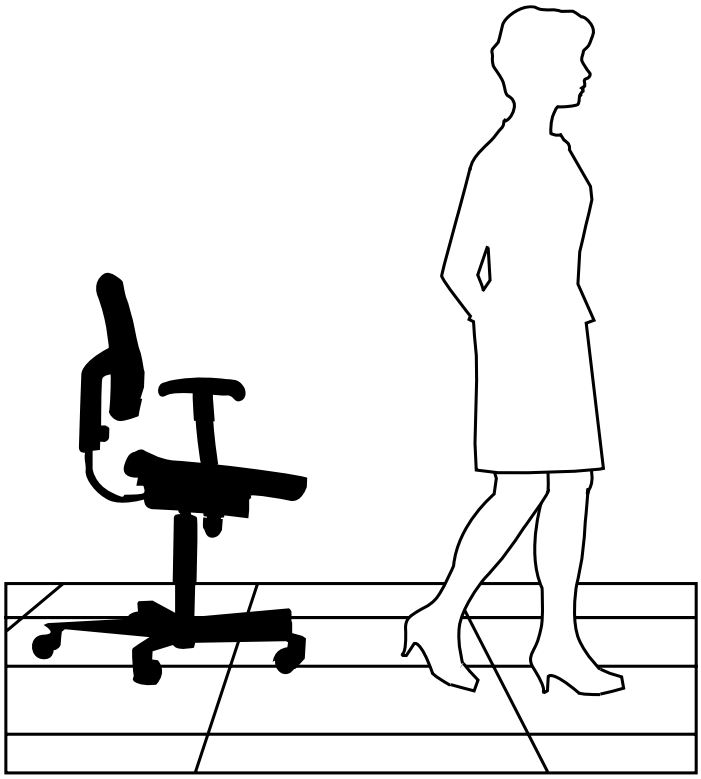


- Adjust the monitor height so that the top of the screen is at or slightly below eye level. Your eyes should look slightly downward when viewing the middle of the screen.
- Position your monitor no closer than 12 inches and no farther away than 28 inches from your eyes. The optimal distance is between 14 and 18 inches.
- Rest your eyes periodically by focusing on an object at least 20 feet away. Blink often.
- Position the monitor at a 90° angle to windows and other light sources to minimize glare and reflections. Adjust the monitor tilt so that ceiling lights do not reflect on your screen.
- If reflected light makes it hard for you to see your screen, use an anti-glare filter.
- Clean your monitor regularly. Use a lint-free, non-abrasive cloth and a non-alcohol, neutral, non-abrasive cleaning solution or glass cleaner to minimize dust.
- Adjust the monitor's brightness and contrast controls to enhance readability.
- Use a document holder placed close to the screen.
- Position whatever you are looking at most of the time (the screen or reference material) directly in front of you to minimize turning your head while you are typing.
- Get regular eye check-ups.

Vary Your Workday

If you use your computer for prolonged periods, follow these instructions.

- Vary your tasks throughout the day.
- Take frequent short breaks that involve walking, standing, and stretching. During these breaks, stretch muscles and joints that were in one position for an extended period of time. Relax muscles and joints that were active.
- Use a timer or reminder software to remind you to take breaks.



- To enhance blood circulation, alter your sitting posture periodically and keep your hands and wrists warm.

Note For more information on workstation setup, see the American National Standard for Human Factors Engineering of Visual Display Terminal Workstations. ANSI/HFS Standard No. 100-1988. The Human Factors Society, Inc., P.O. Box 1369, Santa Monica, California 90406.

Pre-existing Conditions and Psychosocial Factors

Pre-existing conditions that may cause or make some people more susceptible to musculoskeletal disorders include the following: hereditary factors, vascular disorders, obesity, nutritional deficiencies (e.g., Vitamin B deficiency), endocrine disorders (e.g., diabetes), hormonal imbalances, connective tissue disorders (e.g., arthritis), prior trauma (to the hands, wrists, arms, shoulders, neck, back, or legs), prior musculoskeletal disorders, aging, fluid retention due to pregnancy, poor physical conditioning and dietary habits, and other conditions.

Psychosocial factors associated with these disorders include: workplace stress, poor job satisfaction, lack of support by management, and/or lack of control over one's work.

Contact a doctor if you experience pain, tenderness, swelling, burning, cramping, stiffness, throbbing, weakness, soreness, tingling and/or numbness in the hands, wrists, arms, shoulders, neck, back, and/or legs.

Checking Your Comfort: How Do You Measure Up?

Use this checklist to see if you are setting up your work environment to fit your physical needs.

Checking Your Chair

- Do you sit in an upright position with the backrest supporting your lower back?
- When sitting, are your feet flat on the floor?
- Do you periodically adjust your chair and your posture?

Checking Your Keyboard

- Is your keyboard angled so your wrists are straight when you type?
- Is your keyboard directly in front of you?
- Do you avoid resting your wrists on sharp edges?
- Do you press the keys gently and not bang on them?

Checking Your Mouse

- Is your mouse at the same height as the keyboard and next to the keyboard?
- Are your wrists straight and your touch light when moving the mouse?

Checking Your Monitor

- Did you adjust your monitor so that the top of the screen is at or slightly below eye level?
- Do you periodically rest your eyes by blinking often or looking away from the screen?
- Is your monitor no closer than 12 inches and no farther away than 28 inches from your eyes?
- Do you use a document holder placed close to the screen?

Checking You

- Is your work area set up to promote a natural and relaxing working position with frequently used work items within close reach?
- Do you take frequent short breaks?
- Do you stretch and walk during your breaks?

- Do you vary your tasks during the day?
- Do you have regular eye checkups?
- Do you contact your doctor if you feel any sustained discomfort?

For more information on workstation setup, see the American National Standard for Human Factors Engineering of Visual Display Terminal Workstations. ANSI/HFS Standard No. 100-1988. The Human Factors Society, Inc., P.O. Box 1369, Santa Monica, California 90406

This information was prepared in consultation with Dr. David Rempel of the University of California/San Francisco Ergonomics Program and Mr. M.F. Schneider of HUMANTECH, Inc., Ann Arbor, Michigan.

NEC PowerMate Desktop Computer
3-Year Limited Warranty

NEC Solutions (America), Inc. ("NECSAM"), warrants this hardware product against defects in material and workmanship under normal use for a period of three (3) years from the date of original purchase (as established by the date of purchase on your sales receipt) from NECSAM or an authorized NECSAM dealer.

WHO IS COVERED

This warranty may be enforced by the end user purchaser. This warranty is non-transferable.

WHAT IS COVERED

The warranty includes three-year coverage for all defects in material and workmanship in the NEC PowerMate desktop computer.

WHAT IS NOT COVERED

1. Any hardware product that is not distributed in the U.S.A. or Canada by NECSAM or which is not purchased in the U.S.A. or Canada from NECSAM or from an authorized NECSAM dealer. Authorized NECSAM dealers can be identified by an NEC window decal. Any dealer who does not display this decal may be an unauthorized dealer. If you are not certain as to whether a dealer is authorized, please contact NECSAM at **1-800-632-4525**.
2. Any hardware product on which the serial number has been defaced, modified or removed.
3. Damage, deterioration or malfunction resulting from, but not limited to:
   a. Accident (such as spilled liquids or dropping), misuse, abuse, neglect, fire, water, lightning or other acts of nature, unauthorized product modification, or usage not in accordance with the NECSAM hardware product instructions.
   b. Repair or attempted repair by someone other than NECSAM or an NECSAM authorized service provider.
4. Carrying cases, pens, external cabinets, magnetic media, or any accessories used in connection with the hardware product. (Note: A separate limited warranty for accessories/options are provided with the accessories/options.)
5. Use of parts and components not supplied by NECSAM.
6. Software products (please refer to the applicable end user license agreement).
7. Damage to or loss of any programs, data, or removable storage.

HOW TO OBTAIN WARRANTY SERVICE

1. In the United States and Canada, please call NECSAM Technical Support at **1-800-632-4525**. Please have the following required information ready when making your call: Model number, serial number and date of purchase. Please be prepared to provide information to assist in diagnosing your problem over the phone.
2. If the NECSAM technician determines that you have a hardware defect and if the problem cannot be resolved over the phone, the technician will assign a call notification number. If service is needed on your hardware product, NECSAM will arrange for packaging delivery and pick up of the hardware product. (Note: If you choose your own courier, you assume the risk of loss or damage during shipping.) You must return the hardware product in a secure package (as provided by NECSAM or the original NECSAM packaging). If you need packaging, please ask the NECSAM technician.
3. Whenever warranty service is required, the original dated sales slip (or a copy) may be required as proof of warranty coverage.

4. NECSAM may repair or replace the defective part(s) or unit with a new part(s) or unit or at NECSAM's sole option with a refurbished part or unit that is not new but has been functionally tested. Any exchanged part or unit replaced under this warranty will become the property of NECSAM.

5. It is your responsibility prior to returning the hardware product to back up any confidential, proprietary, personal information, or data, programs, personal configuration settings or other information stored on the product ("user information") and remove any asset tags, confidential, proprietary and personal information. NECSAM will not be responsible for any damage to or loss of any "user information" stored on the product or its components in any media.

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Regulatory Statements

The following regulatory statements include the Federal Communications Commission (FCC) Radio Frequency Interference Statement, compliance statement for Canada, information about battery disposal and replacement, LCD panel disposal, and the Declaration of Conformity.

FCC Statement for United States Only

⚠ WARNING Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from the one to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Canadian Department of Communications Compliance Statement

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations (pursuant to ICES-003 Issue 2, Revision 1).

Avis de conformité aux normes du ministere des communications du Canada

Cet equipment ne depasse pas les limites de Classe B d'émission de bruits radioelectriques pour les appareill numerique, lelles que prescribes per le Reglement sur le brouillage radioélectrique elebil por le minisieredes Communications du Canada.

Battery Replacement

A lithium battery maintains system configuration information. In the event that the battery fails to maintain system configuration information, NEC Solutions (America), Inc. recommends the replacement of the battery. For battery replacement information, call your authorized NEC dealer or NEC Solutions (America), Inc. Support Services.

⚠ WARNING There is a danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

⚠ AVERTISSEMENT Il y a danger d'explosion s'il y a replacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type recommandé par le constructeur. Mettre au rébut les batteries usagées conformément aux instructions du fabricant.

Battery Disposal

The CMOS battery is made of lithium. Contact your local waste management officials for other information regarding the environmentally sound collection, recycling, and disposal of the batteries.

LCD Panel Disposal

The LCD lamp in your computer's LCD panel contains mercury.

Do not place a used LCD panel in your regular trash. The panel must be collected, recycled, or disposed of in an environmentally approved manner.

Contact your local waste management officials for other information regarding the environmentally sound collection, recycling, and disposal of the LCD panel.

NEC Solutions (America), Inc.

DECLARATION OF CONFORMITY

We, the Responsible Party

NEC Solutions (America), Inc.
15 Business Park Way
Sacramento, CA 95828

declare that the product

NEC PowerMate eco

is in conformity with part 15 of the FCC Rules. Operation of this product is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

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